



(1) Publication number:

0 367 376 A3

(12)

EUROPEAN PATENT APPLICATION

(21) Application number: 89307348.6

(51) Int. Cl.5: **E21B** 47/10, E21B 33/064

22) Date of filing: 20.07.89

(30) Priority: 03.11.88 US 266971

Date of publication of application: 09.05.90 Bulletin 90/19

② Designated Contracting States:
ES FR GB NL

Date of deferred publication of the search report: 15.05.91 Bulletin 91/20

Applicant: Conoco Inc. 1000 South Pine Street Ponca City Oklahoma 74603(US) Inventor: Stockinger, Michael P. 40 Pinehurst Court

Missouri City Texas 77459(US)

Inventor: Bass, Lee

Deceased(US)

Inventor: **Tietema, James R.** 2445 Ashland Place North Gretna Louisiana 70056(US)

Representative: Davies, Christopher Robert et

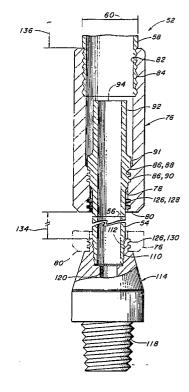
а

Frank B. Dehn & Co. Imperial House 15-19 Kingsway

London WC2B 6UZ(GB)

Apparatus and method for testing a blow-out prevention device.

(57) Apparatus and methods are provided for testing a blow-out preventor system of a well, which blowout preventor system is designed to close upon both a smaller drill pipe string and a larger drill pipe string. The apparatus includes a first elongated cylindrical testing mandrel (54) having an outside diameter substantially equal to an outside diameter of the smaller drill pipe string, and a second elongated cylindrical testing mandrel (58) having an outside diameter substantially equal to an outside diameter of the larger drill pipe string. The first testing mandrel is telescopingly received within the second testing mandrel. A releasable locking structure (86,90) is provided for releasably locking the testing mandrels in a telescopingly extended position whereby the blow-out preventor system can be tested against the first testing mandrel, and for releasing the tested mandrels from their telescopingly extended position so that they can move to a telescopingly collapsed position whereby the blow-out preventor system can also be tested against the second testing mandrel without tripping the testing apparatus out of the well in which the blow-out preventor system is installed.



F | G. 4B



EUROPEAN SEARCH REPORT

EP 89 30 7348

DOCUMENTS CONSIDERED TO BE RELEVANT					
Category		h indication, where appropriate, vant passages		levant claim	CLASSIFICATION OF THE APPLICATION (Int. CI.5)
Α	WO-A-8 404 561 (HYDRIL * Claims 1,2 *	L)		,8,9, 17,18,	E 21 B 47/10 E 21 B 33/064
Α	US-A-4 030 354 (SCOTT) * Abstract *	- 	1,6		
					TECHNICAL FIELDS SEARCHED (Int. CI.5) E 21 B
The present search report has been drawn up for all claims					
Place of search Date of completion of search				Examiner	
The Hague 21 February 91			PAUCNIK		
CATEGORY OF CITED DOCUMENTS X: particularly relevant if taken alone Y: particularly relevant if combined with another document of the same catagory A: technological background O: non-written disclosure P: intermediate document T: theory or principle underlying the invention E: earlier patent document, but published on, or after the filing date D: document cited in the application L: document cited for other reasons					